



## PATENT ABSTRACTS OF JAPAN

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HATTORI NORIAKI****(54) PIN SETTING APPARATUS****(57) Abstract:**

**PROBLEM TO BE SOLVED:** To provide a pin setting apparatus which achieves an arrangement of a plurality of pins to be used by a player for a game at specified positions with a simple manual operation and moreover, a higher safety especially as for locking in operation.

**SOLUTION:** In the pin setting apparatus for arranging a plurality of pins to be used for a game being erected at specified array positions, a pin setting mechanism part for arraying pins into a box-shaped structural body is arranged to be vertically operable. The box-shaped structural body is provided with a guide groove 37 to guide a pin setting bar for supporting pins formed at the pin setting mechanism part to a pin supporting position and a pin releasing position in relation with the lifting/lowering operation and an extended end part of the pin setting bar 34 is engaged with the guide groove

37. The guide groove 37 is equipped with a lock part to lock the pin setting mechanism part at a lifting position and the extended end part of the pin setting bar 34 is guided to the lock part to be locked during the lifting operation.

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